AMENDMENTS TO THE CLAIMS

1-12. (Canceled)

13. (Previously Presented) The method of claim 26, wherein use is made of an oscillator

model for extracting signal segments from the first signal frame, the oscillator model including a

codebook in which vectors of samples forms different states, or entries, in the codebook, the

codebook storing a corresponding signal segment for each state.

14. (Previously Presented) The method of claim 13, wherein the second-listed producing

step comprises a step of matching a true state of a trailing part of the first signal frame with said

states in said codebook, and reading out a signal segment from said codebook that corresponds to

the state having been matched with said true state.

15. (Previously Presented) The method of claim 13, wherein said signal segments of said

codebook have variable lengths, each signal segment forming a trailing part of a signal frame,

thereby enabling continuous transition from the expanded portion to a consecutive signal frame.

16. (Original) The method of claim 13, wherein time delays between said states in said

codebook are incremental delays with a resolution of a fraction of a time between two samples.

17. (Original) The method of claim 14, wherein the states and the corresponding

segments of said codebook are scaled in order to improve the matching with said true state.

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18. (Original) The method of claim 14, wherein merging of said true state is performed

with the matching state of said codebook.

19. (Previously Presented) The method of claim 14, wherein the second-listed producing

step involves performing the corresponding operations with respect to a

heading part of the second signal frame being consecutive to the expanded portion.

20. (Previously Presented) The method of claim 26, wherein said first signal frame is

either a sound signal frame resulting from a complete decoding operation of the first received

frame, or an intermediate time-domain signal frame resulting from a partial decoding operation

of the first received frame.

21. (Previously Presented) The method of claim 26, including the step of using an

oscillator model, which oscillator model includes a codebook in which vectors of samples of a

received digitized sound signal forms different states, or entries, in the codebook, the codebook

storing a corresponding signal segment for each state.

22-25. (Canceled)

26. (Currently Amended) A method for manipulating a received sound signal to produce

a sound signal, wherein the received sound signal is received from a packet-switched network

that looses some packets, the method comprising steps of:

receiving a first received frame from the packet-switched network, wherein:

the first received frame is part of the received sound signal, and

the packet-switched network has packet loss;

producing a first signal frame corresponding to the first received frame, wherein:

the first signal frame is part of the sound signal, and

a second received frame is normally produced contiguously with the first received frame;

determining after beginning the first-listed producing step that at least part of the second received frame is currently unavailable for production; and

producing an expanded portion after the determining step, wherein:

the first signal frame and the expanded portion are contiguous parts of the sound signal,

the expanded portion corresponds to a different amount of the received sound signal than either the first or second received frames, and

the first signal frame and the expanded portion have different time lengths in the sound signal.

27. (Previously Presented) The method of claim 26, wherein the expanded portion is selected from the first signal frame based, at least in part, upon measures of periodicity.

28. (Currently Amended) The method of claim 26, wherein the determining step comprises a step of determining near the end of production of the first signal frame if the part of the second received frame is currently unavailable for production.

29. (Previously Presented) The method of claim 26, further comprising steps of:

determining after beginning the second-listed producing step that the second received frame is still unavailable for production;

producing a second expanded portion after the immediately-preceding determining step, wherein the expanded portion and the second expanded portion are contiguous parts of the sound signal.

30. (Previously Presented) The method of claim 26, wherein:
a playback time of the expanded portion is variable, and
the playback time is selected based, at least in part, upon the sound signal.

31. (Previously Presented) The method of claim 26, wherein:

the first signal frame includes a plurality of sound samples, and

the expanded portion is determined with a time resolution finer than a sample rate of the plurality of sound samples.

32. (Previously Presented) The method of claim 26, further comprising a step of producing a second expanded portion based, at least in part, on some of the second received

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frame, wherein the expanded portion and second expanded portion are contiguous parts of the

sound signal.

33. (Previously Presented) The method of claim 26, further comprising a step of merging

the expanded portion and a contiguous, subsequent, portion of the sound signal using a

periodicity measure, whereby any audible discontinuities between the expanded portion and

second expanded portion are reduced.

34. (Previously Presented) The method of claim 26, wherein the signal frame corresponds

to a plurality of received frames.

35. (Previously Presented) The method of claim 26, further comprising a step of merging

the expanded portion and a contiguous, subsequent, portion of the sound signal based, at least in

part, on overlap-add, wherein a time shift of the first signal frame and expanded portion is

optimized based, at least in part, on correlation.

36. (Previously Presented) The method of claim 26, further comprising steps of

measuring overload of a jitter buffer;

discarding some of the second received frame based, at least in part, on the overload; and

merging a preceding and a subsequent portions of the sound signal after the discarding

step.

37. (Previously Presented) The method of claim 36, further comprising steps of:

determining if a signal fitting criteria between the preceding and subsequent portions is fulfilled; and

performing the discarding step only with the immediately-preceding determining step is fulfilled.

- 38. (Previously Presented) The method of claim 36, wherein a length of the some of the second received frame is based, at least in part, on the sound signal.
- 39. (Previously Presented) The method of claim 36, wherein the some of the second received frame comprises a plurality of sub-portions that are sequentially discarded.
 - 40. (Previously Presented) The method of claim 36, wherein:

the merging step is based, at least in part, on overlap-add, and

any time-shift of the preceding and subsequent portions is optimized based, at least in part, on a measure of periodicity.

- 41. (Previously Presented) A computer-readable medium having computer-executable instructions for performing the computer-implementable method of claim 26.
- 42. (Previously Presented) A computer system adapted to perform the computer-implementable method of claim 26.

43. (Currently Amended) A method for manipulating a received sound signal to product; a sound signal, wherein the received sound signal is received from a packet-switched network that looses some packets, the method comprising steps of:

receiving a first received frame that is part of the received sound signal;

producing a first signal frame corresponding to the first received frame, wherein the first signal frame is part of the sound signal;

determining after beginning the first-listed producing step that part of a second received frame currently unavailable for production due to latency;

producing a first expanded portion after the first-listed determining step, wherein:

the first expanded portion and the first signal frame are contiguous parts of the sound signal,

the first signal frame and the second signal frame would be contiguous parts of the sound signal in situations where the part of the second received frame is available for production, and

the first expanded portion is has a different size than either the first or second received frames;

receiving a third received frame that is part of the received sound signal;

producing a third signal frame corresponding to the third received frame, wherein the third signal frame is part of the sound signal;

determining after beginning the second-listed producing step that part of a fourth received frame currently unavailable for production due to packet loss; and

producing a second expanded portion after the second-listed determining step, wherein:

the second expanded portion and the third signal frame are contiguous parts of the sound signal,

the third signal frame and the fourth signal frame would be contiguous parts of the sound signal in situations where the part of the fourth received frame is available for production,

the second expanded portion is has a different size than either the third or fourth received frames, and

the first and third signal frames have a frame size that is different from a size of the first expanded portion.

44. (Currently Amended) A method for manipulating a received sound signal to produce a sound signal, wherein the received sound signal is received from a packet-switched network that looses some packets, the method comprising steps of:

receiving a first received frame that is part of the received sound signal;

producing a first signal frame corresponding to the first received frame, wherein:

the first signal frame is part of the sound signal, and

a second received frame is produced contiguously with the first received frame when the second received frame is available;

determining after beginning the first-listed producing step that part of the second received frame is currently unavailable for production due to packet loss; and

producing an expanded portion after the determining step, wherein:

the first signal frame and the expanded portion are contiguous parts of the sound signal,

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the expanded portion replaces at least some of the second received frame, and

the expanded portion has a size that is different than a frame size of the first signal

frame.

45. (Previously Presented) The method of claim 26, further comprising a step of

producing a second signal frame corresponding to the second received frame, wherein the

expanded portion and the second signal frame are contiguous parts of the sound signal.

46. (Previously Presented) The method of claim 26, further comprising a step of time

shifting the expanded portion relative to the first signal frame whereby periodicity of the sound

signal is improved across a boundary between the first signal frame and the expanded portion.

47. (Previously Presented) The method of claim 26, further comprising a step of

producing a second signal frame corresponding to the second received frame, wherein the first

and second signal frames have a first frame size that is different from a size of the expanded

portion.

48. (Previously Presented) The method of claim 43, wherein the second expanded portion

has a second size different from the frame size.

49. (New) A method for manipulating a sequence of digitized sound signal frames of a

sound signal, the sound signal frames being decoded from packet data received from a packet

switched network, the method including:

decoding a first sound signal frame from the packet data received from the packet

switched network;

determining that, due to the occurrence of packet loss, the packet data is not available for

decoding a second sound signal frame which should be contiguous with the first sound signal

frame; and

producing an expanded frame portion to be contiguous with the first sound signal frame,

wherein the expanded frame portion represents a part of the sound signal that is different from

the part represented by the first signal frame, and wherein the time length of the expanded frame

portion in the sound signal is different from the time length of first sound signal frame, and

wherein a following frame decoded from the packet data received from the packet switched

network is provided to be contiguous with the expanded frame portion.

50. (New) The method as claimed in claim 49, wherein the time length of the expanded

frame portion is chosen such that it provides a smooth transition to said following frame.

51. (New) The method as claimed in claim 49, wherein the time length of the expanded

frame portion frame is chosen based upon the requirement to fulfil a signal fitting criteria with

respect to the signal characteristics of the sound signal.

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52. (New) The method as claimed in claim 49, wherein the resolution of the time length

of the expanded frame portion is a fraction of the time between two samples of said sound signal,

thereby providing an improved signal fitting quality for a smooth transition to said following

frame.

53. (New) The method as claimed in claim 49, wherein the determining step includes

monitoring of a jitter buffer which stores received data packets to be decoded into signal frames.

54. (New) The method as claimed in claim 49, including matching a true state of a

trailing part of the first sound signal frame with an entry state of a codebook, the codebook

having entries consisting of different states formed by vectors of samples and storing a

corresponding signal segment for each entry state, wherein the step of producing an expanded

frame portion includes reading out a signal segment from said codebook that corresponds to the

entry state that have been matched with said true state.

55. (New) The method as claimed in claim 54, wherein different signal segments of said

codebook have different time lengths, each signal segment forming a trailing part of a signal

frame, thereby enabling continuous transition from the time expanded signal frame to a

consecutive signal frame.

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56. (New) The method as claim 54, wherein time delays between states of said entries in

said codebook are incremental delays with a resolution of a fraction of a time between two

samples.

57. (New) The method as claimed in claims 54, wherein the states of said codebook are

scaled in order to improve the matching with said true state, and wherein a trailing part of the

signal segment read out from the codebook is scaled to provide a smooth transition to said

following frame.

58. (New) A computer-readable medium including a computer program for manipulating

a sequence of digitized sound signal frames of a sound signal, the sound signal frames being

decoded from packet data received from a packet switched network, the computer program

causing a receiver unit to:

decode a first sound signal frame from the packet data received from the packet switched

network;

determine that, due to the occurrence of packet loss, the packet data is not available for

decoding a second sound signal frame which should be contiguous with the first sound signal

frame; and

produce an expanded frame portion to be contiguous with the first sound signal frame,

wherein the expanded frame portion represents a part of the sound signal that is different from

the part represented by the first signal frame, and wherein the time length of the expanded frame

portion in the sound signal is different from the time length of first sound signal frame, and

wherein a following frame decoded from the packet data received from the packet switched network is provided to be contiguous with the expanded frame portion.

59. (New) An apparatus for manipulating a sequence of digitized sound signal frames of a sound signal, the sound signal frames being decoded from packet data received from a packet

switched network, the apparatus including:

a memory element for storing a computer program and vectors of samples of the received sound signal together with corresponding signal segments; and

a processor unit for executing a computer program causing the apparatus to:

decode a first sound signal frame from the packet data received from the packet switched network;

determine that, due to the occurrence of packet loss, the packet data is not available for decoding a second sound signal frame which should be contiguous with the first sound signal frame; and

produce an expanded frame portion to be contiguous with the first sound signal frame, wherein the expanded frame portion represents a part of the sound signal that is different from the part represented by the first signal frame, and wherein the time length of the expanded frame portion in the sound signal is different from the time length of first sound signal frame, and wherein a following frame decoded from the packet data received from the packet switched network is provided to be contiguous with the expanded frame portion.